



PTO/SB/08A (08-03)

Substitute for form 1448A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 10

Complete If Known

Application Number	10/670,162
Filing Date	September 23, 2003
First Named Inventor	PAVLOVSKAIA, ELENA
Art Unit	2125
Examiner Name	Elliot L. Frank
Attorney Docket Number	018563-004620US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code ² (if known)			
AS	AA	2,467,432	04-19-1949	Kesling	
AS	AB	3,660,900	05-09-1972	Andrews	
AS	AC	3,860,803	01-14-1975	Levine	
AS	AD	3,916,526	11-04-1975	Schudy	
AS	AE	3,950,851	04-20-1976	Bergersen	
AS	AF	4,014,096	03-29-1977	Dellinger	
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AS	AM	4,575,805	03-11-1986	Moermann, et al.	
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AS	AS	4,763,791	08-16-1988	Halverson et al.	
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AS	AU	4,798,534	01-17-1989	Breads	
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AS	BA	4,964,770	10-23-1990	Steinbichler et al.	
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AS	BC	5,011,405	04-30-1991	Lemchen	
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AS	BH	5,059,118	10-22-1991	Breads et al.	
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AS	BN	5,139,419	08-18-1992	Andreiko et al.	
AS	BO	5,184,306	02-02-1993	Erdman et al.	

Examiner Signature	/Ayal Sharon/	Date Considered	09/25/2006
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			Art Unit	2125	
Examiner Name	Elliot L. Frank				
Sheet	2	of	10	Attorney Docket Number	018563-004620US

U.S. PATENT DOCUMENTS+					
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		Number Kind Code ² (if known)			
AS	BP	5,186,623	02-16-1993	Breads et al.	
AS	BQ	5,257,203	10-26-1993	Riley et al.	
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AS	BS	5,278,756	01-11-1994	Lemchen et al.	
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AS	BU	5,340,309	08-23-1994	Robertson	
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AS	BW	5,368,478	11-29-1994	Andreiko et al.	
AS	BX	5,382,164	01-17-1995	Stern	
AS	BY	5,395,238	03-07-1995	Andreiko et al.	
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AS	CK	5,587,912	12-24-1996	Andersson et al.	
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AS	CM	5,607,305	03-04-1997	Andersson et al.	
AS	CN	5,645,421	07-08-1997	Slootsky	
AS	CO	5,655,653	08-12-1997	Chester	
AS	CP	5,683,243	11-04-1997	Andreiko et al.	
AS	CQ	5,733,126	03-31-1998	Andersson et al.	
AS	CR	5,740,267	04-14-1998	Echerer et al.	
AS	CS	5,975,893	11-02-1999	Chishti et al.	

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		Country Code ³	Number ⁴	Kind Code ⁵ (If known)				
AS	CT	EP	091,876	A1	10-19-1983	Duret		<input type="checkbox"/>
AS	CU	EP	299,490	A2	01-18-1989	Steinbichler et al.		<input type="checkbox"/>
AS	CV	EP	376,873	A2	07-04-1990	Shafir		<input type="checkbox"/>
AS	CW	EP	490,848	B1	06-17-1992	Andersson et al.		<input type="checkbox"/>
AS	CX	EP	541,500	A1	06-12-1998	Andersson et al.		<input type="checkbox"/>

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AS	CY	EP	731,673	B1	09-18-1998	Andersson et al.		<input type="checkbox"/>
AS	CZ	EP	774,933	B1	05-28-1997	Oden et al.		<input type="checkbox"/>
AS	DA	FR	2,652,256	A1	03-29-1991	Jourda		<input type="checkbox"/>
AS	DB	FR	2,369,828	A1	06-02-1978	Suyehiro		<input type="checkbox"/>
AS	DC	WO	90/08,512	A1	08-09-1990	Lemcren		<input type="checkbox"/>
AS	DD	WO	91/04,713	A1	04-18-1991	Jourda et al.		<input type="checkbox"/>
AS	DE	WO	94/10,935	A1	05-26-1994	Andreiko et al.		<input type="checkbox"/>
AS	DF	WO	98/44,865	A1	10-15-1998	Andersson		<input type="checkbox"/>
AS	DG	WO	98/58,596	A1	12-30-1998	Chishti et al.		<input type="checkbox"/>

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AS	DH	ALEXANDER et al., "The DigiGraph Work Station Part 2, Clinical Management," JCO (July 1990), pp. 402-407.	
AS	DI	ALTSCHULER et al., "Laser Electro-Optic System for Rapid Three-Dimensional (3D) Topographic Mapping of Surfaces," <i>Optical Engineering</i> , Vol. 20(6) (1981), pp. 953-961.	
AS	DJ	ALTSCHULER et al., "Measuring Surfaces Space-Coded by a Laser-Projected Dot Matrix," <i>SPIE Imaging Applications for Automated Industrial Inspection and Assembly</i> , vol. 182 (1979), p. 187-191.	
AS	DK	ALTSCHULER et al., "Analysis of 3-D Data for Comparative 3-D Serial Growth Pattern Studies of Oral-Facial Structures," Program and Abstracts of Papers, Feb. 1975, <i>Journal of Dental Research</i> , Vol. 54, IADR Abstracts 1979, 2 pages total.	
AS	DL	ALTSCHULER, "3D Mapping of Maxillo-Facial Prosthesis," AADR Abstract #607, 1980, 2 pages total.	
AS	DM	American Association for Dental Research, Summary of Activities, March 20-23, 1980, Los Angeles, CA, p. 195.	
AS	DN	ANDERSSON et al., "Clinical Results with Titanium Crowns Fabricated with Machine Duplication and Spark Erosion," <i>Acta Odontologica Scandinavica</i> , vol. 47 (1989), pp. 279-286.	
AS	DO	BAUMRIND et al., "A stereophotogrammetric system for the detection of prosthesis loosening in total hip arthroplasty, Applications of Human Biostereometrics (NATO)," Proceedings of the Society of Photo-Optical Instrumentation Engineers, Vol. 166, July 9-13, 1978, pp. 112-123.	
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AS	DW	BIGGERSTAFF et al., "Computerized analysis of occlusion in the postcanine dentition," <i>American Journal of Orthodontics</i> , Vol. 61, No. 3 (Mar. 1972), pp. 245-254.	

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AS	DX	BIGGERSTAFF, "Computerized Diagnostic Setups and Simulations," <i>The Angle Orthodontist</i> , Vol. 40, No. 1 (Jan. 1970), pp. 28-36.		
AS	DY	BRANDESTINI et al., "Computer Machined Ceramic Inlays: In Vitro Marginal Adaptation," <i>Journal of Dental Research</i> , Vol. 64/Special Issue/Abstracts, IADR/AADR Abstracts 1985, 1 page total.		
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AS	EH	CRAWFORD, "CAD/CAM in the Dental Office: Does It Work?" <i>Canadian Dental Journal</i> , Vol. 57, No. 2 (Feb. 1991), pp. 121-123.		
AS	EI	CROOKS, "CAD/CAM Comes to USC," <i>USC Dentistry</i> , (Spring 1990) pp. 14-17.		
AS	EJ	CURETON, "Correcting malaligned mandibular incisors with removable retainers" <i>J. Clin. Orthod.</i> , 30:390-395, 1996.		
AS	EK	CURRY et al., "Integrated Three-Dimensional Craniofacial Mapping at the Craniofacial Research Instrumentation Laboratory/University of the Pacific," <i>Seminars in Orthodontics</i> , Vol. 7, No. 4 (Dec. 2001), pp. 258-265.		
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AS	EN	DEFRANCO et al., "Three-Dimensional Large Displacement Analysis of Orthodontic Appliances," <i>J. Biomechanics</i> , Vol. 9 (1976), pp. 793-801.	
AS	EO	Dental Institute University of Zurich Switzerland, Program for International Symposium on Computer Restorations: State of the Art of the CEREC-Method, May 1991, 3 pages total.	
AS	EP	DenTrac Corporation, Dentrac document, pp. 4-13.	
AS	EQ	DURET et al., "CAD-CAM in Dentistry," <i>Journal of the American Dental Association</i> , Vol. 117 (Nov. 1988), pp. 715-720.	
AS	ER	DURET et al., "CAD/CAM Imaging in dentistry," <i>Current Opinion in Dentistry</i> , Vol. 1 (1991), pp. 150-154.	
AS	ES	DURET, "The Dental CAD/CAM, General Description of the Project," <i>Hennson International Product Brochure</i> , Jan. 1986., 18 pages total.	
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AS	EV	ELSASSER, "Some observations on the history and uses of the Kesling positioner" <i>Am. J. Orthod.</i> , 36:368-374, 1950.	
AS	EW	FABER et al., "Computerized interactive orthodontic treatment planning," <i>Am. J. Orthod.</i> , Vol. 73, No. 1 (Jan. 1978), pp. 36-46.	
AS	EX	FELTON et al. "A computerized analysis of the shape and stability of mandibular arch form," <i>Am. Journal of Orthodontics and Dentofacial Orthopedics</i> , Vol. 92, No. 6 (Dec. 1987), pp. 478-483.	
AS	EY	FRIEDE et al., "Accuracy of Cephalometric Prediction in Orthognathic Surgery," <i>Abstract of Papers, Journal of Dental Research</i> , Vol. 70 (1987), pp. 754-760.	
AS	EZ	GIM-ALLDENT Deutschland, "Das DUX System: Die Technik" 4 pages total.	
AS	FA	GRAYSON, "New Methods for Three Dimensional Analysis of Craniofacial Deformity," Symposium: Computerized Facial Imaging in Oral and Maxillofacial Surgery, AAOMS Sept. 13, 1990, 3 pages total.	
AS	FB	GUESS et al., "Computer Treatment Estimates in Orthodontics and Orthognathic Surgery," <i>JCO</i> , (April, 1989), pp. 262-28.	
AS	FC	HEAVEN et al., "Computer-based Image Analysis of Artificial Root Surface Caries," "Automated Identification of Landmarks in Cephalometric Radiographs," <i>Abstracts of Papers, Journal of Dental Research</i> , Vol. 67, March 9-13, 1988, 2 pages total.	

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AS	FD	HOFFMANN et al., "Role of Cephalometry for Planning of Jaw Orthopedics and Jaw Surgery Procedures," (Article Summary in English, article in German), <i>Informationen</i> , (March 1991), pp. 375-396.		
AS	FE	HUCKINS, "CAD-CAM Generated Mandibular Model Prototype from MRI Data," <i>AAOMS</i> 1999, p. 96.		
AS	FF	Inside the ADA, <i>Journal Of The American Dental Assoc.</i> , Vol. 118 (March 1989) 9 pages total.		
AS	FG	JCO Interviews, "Craig Andreiko, DDS, MS on the Elan and Orthos Systems", JCO, (Aug. 1994), pp. 459-468.		
AS	FH	JCO Interviews, "Dr. Homer W. Phillips on Computers in Orthodontic Practice, Part 2," JCO, (Dec. 1983), pp. 819-831.		
AS	FI	JERROLD, "The problem, electronic data transmission and the law," <i>AJO-DO</i> , (Apr. 1988), pp. 478-479.		
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AS	FK	KAMADA et al., "Case reports on tooth positioners using LTV vinyl silicone rubber" <i>J. Nihon University School of Dentistry</i> , 26(1):11-29, 1984.		
AS	FL	KAMADA et al., "Construction of tooth positioners with LTV vinyl silicone rubber and some case reports" <i>J. Nihon University School of Dentistry</i> , 24(1):1-27, 1982.		
AS	FM	KANAZAWA et al., "Three-Dimensional Measurements of the Occlusal Surfaces of Upper Molars in a Dutch Population," <i>J. Dent Res.</i> , Vol. 63, No. 11 (Nov. 1984), pp. 1298-1301.		
AS	FN	KESLING, "Coordinating the predetermined pattern and tooth positioner with conventional treatment" <i>Am. J. Orthod. Oral Surg.</i> , 32:285-293, 1946.		
AS	FO	KESLING, "The philosophy of the tooth positioning appliance" <i>Am. J. Orthod. Oral Surg.</i> , 31(6):297-304, 1945.		
AS	FP	KLEEMANN et al., "The speed positioner" <i>J. Clin. Orthod.</i> , 30:673-680, 1996.		
AS	FQ	KURODA et al., "Three-dimensional dental cast analyzing system using laser scanning" <i>Am. J. Orthod. Dentofac. Orthop.</i> , 110:365-369, 1996.		
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Substitute for form 1449B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	10/670,162
				Filing Date	September 23, 2003
				First Named Inventor	PAVLOVSKAIA, ELENA
				Art Unit	2125
				Examiner Name	Elliot L. Frank
Sheet	8	of	10	Attorney Docket Number	018563-004620US

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²	
AS	FT	MCNAMARA et al., <i>Orthodontic and Orthopedic Treatment in the Mixed Dentition</i> , Needham Press, January 1993. pp.347-353.		
AS	FU	MCNAMARA et al., "Invisible Retainers", <i>J. Clinical Orthodontics</i> , (August 1985) pp. 570-578.		
AS	FV	MOERMANN et al., "Computer Machined Adhesive Porcelain Inlays: Margin Adaptation after Fatigue Stress," IADR Abstract 339, <i>Journal of Dental Research</i> , vol. 66(a) (1987), p. 339.		
AS	FW	MÖRMANN et al., "Marginal Adaptation von adhesiven Porzellaninlays in vitro," <i>Schwizerische Monatsschrift für Zahnmedizin</i> , Vol. 85 (1985), p. 1118-1129.		
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AS	FY	NAHOUM, "The vacuum formed dental contour appliance" <i>The New York State Dental Journal</i> , 30(9):385-390, Nov. 1964.		
AS	FZ	NASH, "CEREC CAD/CAM Inlays: Aesthetics and Durability in a Single Appointment," <i>Dentistry Today</i> , (October 1990), pp. 20, 22-23, 54.		
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AS	GB	PINKHAM, "Foolish' Concept Propels Technology," <i>Dentist</i> , Jan./Feb. 1989, 3 pages total.		
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AS	GD	PONITZ, Invisible Retainers, 59 <i>Am. J. Orthodontics</i> , March 1971, pp. 266-272.		
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AS	GI	REKOW, "Dental CAD-CAM Systems: What is the State of the Art?" <i>Journal of the American Dental Assoc.</i> , Vol. 122 (1991), pp. 43-48.		

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				Examiner Name	Elliot L. Frank
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AS	GJ	REKOW, "Feasibility of an Automated System for Production of Dental Restorations," PhD Thesis, Univ. of Minnesota, Nov. 1988, 244 pages total.		
AS	GK	RICHMOND et al., Research Reports, "The development of a 3D Cast Analysis System," <i>British Journal of Orthodontics</i> , pp. 53-54.		
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AS	GM	RUDGE, "Dental arch analysis: arch form, A review of the literature," <i>European Journal of Orthodontics</i> , Vol. 3, No. 4 (1981), pp.279-284.		
AS	GN	SAKUDA et al., "Integrated Information-processing system in clinical orthodontics: An approach with use of a computer network system," <i>Am. J. Orthod. Dentofac. Orthop.</i> Vol. 101 No. 3 (March 1992), pp. 210-220.		
AS	GO	SHELLHAS et al., "Three-Dimensional Computer Tomography in Maxillofacial Surgical Planning," <i>Arch Otolaryngol Head Neck Surg.</i> Vol. 114 (April 1988), pp. 438-442.		
AS	GP	SEGU et al., "Computer-aided Cefalometry and New Mechanics in Orthodontics" (Article Summary in English, article in German), <i>Fortschr. Kieferorthop.</i> 44, 370-376 (Nr. 5), 1983		
AS	GQ	SHILLIDAY, "Minimizing finishing problems with the mini-positioner" <i>Am. J. Orthod.</i> 59:596-599, 1971		
AS	GR	Siemens, "CEREC - Computer-Reconstruction," "High Tech in der Zahnmedizin, 14 page total.		
AS	GS	Sirona Dental Systems GmbH, CEREC 3D, Manuel utilisateur, Version 2.0X (in French), 2003, 114 pages total.		
AS	GT	STOLL et al., "Computer-aided Technologies in Dentistry" (Article Summary in English, article in German), <i>Dtsch Zahnärztl Z</i> 45, 314-322, 1990.		
AS	GU	U.S. Department of Commerce, National Technical Information Service, "Automated Crown Replication Using Solid Photography SM," Solid Photography Inc. Melville NY, October 1977, 21 pages total.		
AS	GV	U.S. Department of Commerce, National Technical Information Service, "Holodontology: An Introduction to Dental Laser Holography," School of Aerospace Medicine Brooks AFB Tex, March 1973, 37 pages total.		
AS	GW	U.S. Provisional Patent Application No. 60/050342, filed on June 20, 1997, 41 pages total.		
AS	GX	VAN DER LINDEN et al., "Three-Dimensional Analysis of Dental Casts by Means of the Optocom," <i>J Dent Res</i> , July-August 1972, p. 1101.		
AS	GY	VAN DER LINDEN, "A New Method to Determine Tooth Positions and Dental Arch Dimensions," July-August 1972, p. 1104.		

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AS	GZ	VAN DER ZEL, "Ceramic-fused-to-metal Restorations with a New CAD/CAM System," <i>Quintessence International</i> , vol. 24(11) (1993), pp. 769-778.		
AS	HA	VÁRADY et al., "Reverse Engineering of Geometric Models - An Introduction," May 13, 1996, pp. 1-28.		
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AS	HE	WILLIAMS, "Dentistry and CAD/CAM: Another French Revolution," <i>Journal of Dental Practice Admin.</i> , Jan./March 1987, pp. 2-5.		
AS	HF	WILLIAMS, "The Switzerland and Minnesota Developments in CAD/CAM," <i>Journal of Dental Practice Admin.</i> , pp. 50-55, April/June 1987.		
AS	HG	WISHAN, "New Advances in Personal Computer Applications for Cephalometric Analysis, Growth Prediction, Surgical Treatment Planning and Imaging Processing," <i>Symposium: Computerized Facial Imaging In Oral and Maxillofacial Surgery</i> , AAOMS, Sept. 13, 1990, p. 5.		
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